## DEPARTMENT OF ECOLOGY INSPECTION REPORT

To: D. Cargill

Inspectors: M. Turvey, J.Polayes-Wien

Date of Visit: November 17, 1992

Date of Inspection Report: December 15, 1992

Permit No.: WA- N/A New Industry: [ ] Yes [x] No

Permit Expires: N/A

Type of Inspection:

| [ | ] | Permit | Application | [ ] | Complaint      | ſl | Announced   |
|---|---|--------|-------------|-----|----------------|----|-------------|
|   |   |        | Renewal     | įį  | Enforcement    | -  | Unannounced |
| [ | ] | Permit | Compliance  | [x] | Source Control |    |             |

Facility: Ace Galvanizing, Inc. Address: 429 South 96th Street

City: Seattle ZIP: 98108 County: King

Telephone: (206) 762-0330

Person Contacted: Mike Buckland

Type of Facility: Hot dip galvanizing, pickling and oiling

Receiving Water: Duwamish Waterway

Type of Treatment System: BMP's, Recirculation

Complies with permit conditions: [ ] Yes [ ] No [x] N/A

NARRATIVE: We arrived at the facility at 10:50 and met with Mike Buckland, General Manager who agreed to show us the facility. We began with looking at the facility's warehouse. The warehouse is used for storage of drums containing muriatic acid, zinc skimmings, iron salts, and zinc ammonium along with bags of chloride crystal. There were no floor drains in the warehouse and the drums and bags of crystal were stored neatly.

Mr. Buckland explained that they galvanize heavy structural equipment. A complete description of the process is described in a letter to Ecology dated September 18, 1992. Basically the process includes surface preparation which begins with degreasing pieces in a hot caustic dip, rinsing with water, pickling pieces in a hot dilute solution of sulfuric acid to remove scale and rinsing again with water; prefluxing to dissolve the oxide which forms on steel and cover pieces with flux using zinc ammonium chloride; galvanizing by immersing pieces in molten zinc; and finishing which includes air drying and deburring.

In addition, Ace Galvanizing operates a pickling and oiling operation for piping (see photos #4,6,7). This process includes surface preparation which includes degreasing piping, followed by a caustic rinse, hydrochloric acid pickling, hydrochloric acid rinse, neutralization with sodium metasilicate, and oiling.

USEPA SF 1410067 Ace Galvanizing, Inc. Inspection Report December 15, 1992 Page 2

The pickling and oiling operation is located next to the warehouse. It consists of a series of tanks and finally a bermed area where pipes are set up to drip dry and are prepared for shipment. Mr. Buckland said that the oil in this pickling process is only changed about once every two years. The tanks are protected by a roof and partial side walls. The tanks rest on a concrete surface. There were no drains in this area. Also next to the warehouse is a 8-900 gallon tank resting on a metal pallet without secondary containment or cover (see photo #5). The tank is used to store waste oil. Mr. Buckland said that it is not full and it takes a long time to accumulate oil.

From the warehouse we looked at their maintenance shop. The shop contains small quantities of spray paints, brake fluid, and lubricants. Mr. Buckland explained that they need to fabricate replacement parts because the acids used in the processes eventually destroy equipment. Next to the shop three 55 gallon drums were stored within a covered bermed enclosure. The drums contain hydraulic oil, motor oil and solvent. Smaller buckets are used to capture any spills from the drums. A 55 gallon drum containing transmission fluid (see photo #8) was stored next to the bermed enclosure but outside the berm.

Mr. Buckland said that they generate an iron mash from their process which is shipped to Arlington. They use a centrifuge to separate metal crystals from the acids. This separation produces a dross which is sold to mining operations and to fertilizer companies. There were chunks of dross stored in the yard outside on the pavement. Mr. Buckland said that the dross would be picked up soon.

The dross was located next to several large tanks which is part of the recirculation system described above (see photos #11 and 13). Also stored outside of the bermed enclosure, near the dross were 2 batteries. Mr. Buckland directed one of his workman to remove the batteries and store them inside. The facility stores five 55 gallon drums of diesel within the bermed enclosure holding the tanks.

We walked to the entry area for the main building shown in photos 18, 19 and 20 and declined an opportunity to look at the inside galvanizing process because of the very strong fumes. Fumes are vented to the roof and released to the atmosphere. I mentioned to Mr. Buckland that we have received complaints concerning the fumes from neighboring

Ace Galvanizing, Inc. Inspection Report Dec. 15, 1992 Page 3

businesses. There was a particular instance where the fumes were reported to be so strong that employees were sent home. I asked if he knew of any instance where something unusual happened that would have caused this. He said we were probably referring to when one of their tanks failed that was full of molten zinc. At the time the only containers they had on site to transfer the zinc to were painted 55 gallon drums. They needed to transfer the zinc to small containers because if the material had been able to cool it would have been unmovable. In a solid phase it would weigh 450,000 lbs. The heat from the molten zinc burned off the paint sending strong fumes to the atmosphere. They now keep a spare tank and unpainted drums on site in case of emergencies.

From here we looked at their storage yard. Mr. Buckland said they have plans to blacktop the entire yard. He said this would help keep the gravel out of the storm sewer. The yard is used to store parts (see photos 21,22 and 23). They had leased part of their yard to a company which built a satellite dish and building to house computers. The company removed the dish but abandoned the building. Mr. Buckland had no immediate plans to do anything with this part of the property.

We returned to the office and asked to see some of the manifests for transferring of hazardous waste to Arlington. Mr. Buckland said that they generate sludge from the acid baths that are filtered. The manifests described the waste as bulk super bags of ferrous oxide contaminated with caustic soda and metal. He also said that they had an underground storage tank pulled out by Northwest Enviroservice about 3-4 years ago. The tank was found not to be leaking.

We departed the facility at 12:35.

Martha Turvey, Inspector Elliott Bay Action Team

| PHOTO NO.                          |          |   |
|------------------------------------|----------|---|
| DATE: 11/17/92                     |          |   |
| TIME: 12:04                        |          |   |
| TAKEN BY:                          |          |   |
| J. Polygo-Wien                     |          |   |
| WITHESS:                           |          |   |
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| FILM: Kodan 200                    |          | <b>.</b> ]  |
| CAMERA: 35 mm                      |          | <b>)</b> )  |
| LOCATION:                          |          | 1   |
| Ace Calvanying                     |          |   |
| Ire, Seattle                       |          |   |
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| warehouse used                     | - 410.0% |   |
| he storage of                      |          |   |
| Supplie, Chemicals                 | 2.       |   |
| No drains in                       |          |   |
| building                           |          |   |
| )                                  |          |   |
| PHOTO NO.:                         |          |   |
| DATE: 11/17/92                     |          |   |
| TIME: 12:04                        |          |   |
| TAKEN BY:                          |          |   |
| J. Polays-Wien<br>WITHESS:         |          |   |
|                                    |          |   |
| M. Turvey                          |          |   |
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PHOTO NG. 3 DATE: 11/17/92 TIME: 12:05 TAKEN BY: J. Polanes. Wien WITNESS: M. Turvey FILM: Kodak 200 (PERMAGAS CAMERA: 35 mm LOCATION: Ace Galvanizine Scaffle DESCRIPTION: Propose tank stored outside 17 12:05 PHOTÓ NO.: 4 DATE: 11/17/92 TIME: 12:08 TAKEN BY: J. Polnups-Wien WITNESS: M. Turvey FILM: Kodax 200 CAMERA: 35 run LOCATION: Ace Calvanying DESCRIPTION: Tanks Contain herdrockoric and Inhibitor & kydraulie oil. On side of warehouse under cover.

| PHOTO NC 5                           |      |
|--------------------------------------|------|
| DATE: 11/17/82<br>TIME: 12:09        |      |
| TIME: 12:03                          |      |
| TAKEN BY:                            |      |
| J. Polages - Wien<br>VITNESS:        |      |
| WITHESS:                             |      |
| M. Turvey                            |      |
| M. Turvey<br>FILM: KODAY 200         |      |
| CAMERA: 35 Mm                        |      |
| LOCATION:                            |      |
| Ace Colleanizing Low                 |      |
| Seattle, WAS                         |      |
| DESCRIPTION:                         |      |
| Tank used to                         |      |
| store waste oil.                     |      |
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| No secondary<br>Containment for cove |      |
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|                                      |      |
| PHOTÓ NO.:                           |      |
| DATE: 11/11/92                       |      |
| TIME: 12:09                          | HADE |
| TAKEN BY:                            | 1079 |
| J. Polanges - Wien<br>WITNESS:       | 1995 |
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| NA Turner                            |      |

TIME: 12:09

TAKEN BY:

J. Polanges - Wien

WITNESS:

M. Turvery

FILM: KODAR 200

CAMERA: 35 Mm

LOCATION:

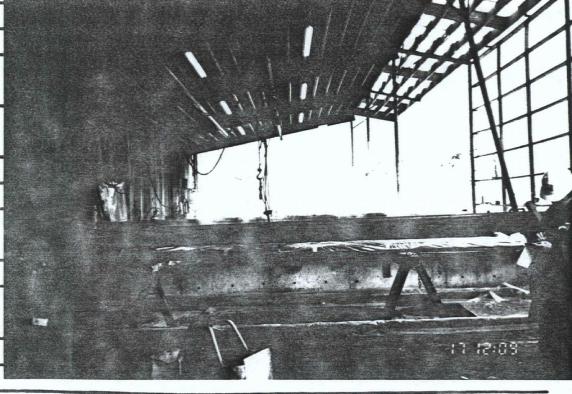
Are (galvaninging

Seattle WA- 1)

DESCRIPTION:

Tanks on side of

process



to capture any oil that may arijo from pipes. Grelowe is lined with plastic to make it easier to collect oil.

| PHOTO NC 7  DATE: HITIPZ  TIME: 12:09  TAKEN BY:  I Polanes - W. en  WITNESS:  M. Turvey  FILM: KODAY 200  CAMERA: 35 mm  LOCATION:  Ace (salvanizing  Seaffle wh. ()  DESCRIPTION:  Sane as photo # 6 |         | 17/12:08 |
|--|---------|----------|
| PHOTÓ NO.: 8  DATE: 11/17/92  TIME: 12:18  TAKEN BY:  J. POLANDS - W.C.  WITNESS:  M. Torvery  FILM: KODAN 200  CAMERA: 35 mm  LOCATION:  Ace Galvanning  Seeffle, WA. O  DESCRIPTION:                 | SMO ING |          |

solvent stored outside under cover with bern. One drum outside of berned area, contains transmission fluid.

| PHOTO NC 9                      |  |          |          |               |
|---------------------------------|--|----------|----------|---------------|
| DATE: 11/17/92                  | <b>O</b> .                               |          | J. Ladi  |               |
| TIME: 12:24                     | <b>国家工产工业</b>                            |          | 4-3      |               |
| TAKEN BY:                       |  |          |          |               |
| VITNESS:                        |  | 4        | 1        | October 1992a |
| WITHESS:                        |  |          |          |               |
| FILM: KODAK 200                 |  | = I + i  |          |               |
| CAMERA: 254                     | 1  |          | N =      |               |
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| S. M. Va                        |  |          |          |               |
| Seuffle WA!  DESCRIPTION:       | 7  |          |          |               |
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| PHOTÓ NO.: 10                   |  |          |          |               |
| DATE: 11/17/92                  |  |          |          |               |
| TIME: 12:25                     |  |          |          |               |
| TAKEN BY:                       | 4  | <b>†</b> |          |               |
| J. Polyges-Wien-                |  |          |          |               |
| M. Turvey                       |  |          | <b>.</b> |               |
| FILM: Kopak 200                 |  |          |          |               |
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| LOCATION:                       | La L |          |          | 1             |
| See Galvaning                   |  | - 2      |          |               |
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| DESCRIPTION:                    |  |          |          |               |
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| looking towards                 |  |          |          | The second    |
| building where bulk             |  |          |          |               |
| of galvanizing is               | Lone.                                    |          |          |               |
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| DATE: 11/17/92                  |                        |  |
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| TAKEN BY:                       | ,                      |  |
| J. Polayes-Wien                 |                        |  |
| WITHESS:                        |                        |  |
| M. Turvey                       |                        |  |
| FILM: KODAN 200                 | 1                      |  |
| CAMERA: 35 mm                   |                        |  |
| LOCATION:                       | - M                    | - # E  |
| Ace Colvanning                  | - Williams             |  |
| Seattle, Wa.                    |                        |  |
| DESCRIPTION:                    |                        |  |
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| building where                  |                        | 43 18:88   |
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| metal crestals.                 | U .                    |  |
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| PHOTÓ NO.: 12                   |                        |  |
| DATE: 11/17/92                  | A JAMES                |  |
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| J. Polangs-Wien                 |                        |  |
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| M. Turvey                       | SI OKIN                |  |
| FILM: KODAK 200                 |                        |  |
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| LOCATION:                       |                        | =  |
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| Ace Galvanizing<br>Seattle, wa. |                        |  |
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| of drum storage                 |                        |  |
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| J. Polages-Wien<br>WITHESS:    |  |                      |     |          |
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| M. Tuney                       | 型工厂  |                      |     |          |
| FILM: KODAR 200                | 1  |                      |     |          |
| CAMERA: 35 mm                  |  | 14                   |     | 4        |
| LOCATION:                      |  |                      |     |          |
| Ace Galvaninia                 |  |                      |     | 3.0      |
| Scattle WA                     | 4  | <b>E</b> C. J. J. J. |     |          |
| DESCRIPTION:                   |  |                      |     |          |
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| TIPE: 12:43                    | T  |                      |     |          |
| TAKEN BY:                      | -  |                      |     |          |
| J. Polanes - Wie-              |  |                      |     |          |
| J. Polanges - Wie-<br>WITNESS: |  |                      |     |          |
| m Turven                       | engr.  |                      |     |          |
| FILM: York 200                 |  | •                    |     |          |
| CAVERA: 35 mm.                 |  |                      |     |          |
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| Ace Calvaning                  |  |                      |     |          |
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| J. Polimes- Wien                  |       |   |  |          |
| J. Polymes - Wien-<br>WITHESS:    | N. A. |   | 1  |          |
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| FILM: KODAK 200                   |       |   |  |          |
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| J. Polangs-Wier<br>WITNESS:       |       | Dr. Walter  |  |          |
| M. Turvey                         |       |   |  |          |
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17 12:45

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on workers

| PHOTO NC. 17     |  |                   |               |            |
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| 1. Polayes-Wien  | The second second  |                   |               |            |
| WITNESS:         |  |                   |               |            |
| M. Turvey        |  |                   |               |            |
| FILM: KODAK 200  |  |                   |               |            |
| CAMERA: 35 Mm    |  |                   | 200           |            |
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| Ace Galvanining  | 1.483  |                   |               |            |
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| property used to | A Company  |                   |               |            |
| Store Equipment  |  |                   | 2             | L 17-18:55 |
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| J. Polanes- Wie- |  | Laborate La       |               | 71         |
| WITHESS:         |  | 9                 |               |            |
| M. Turvey        | 194  |                   |               |            |
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| DATE: 11/17/92  |  |       |
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| TAKEN BY:   |  |       |
| J. Polares - Wien<br>WITHESS:   |  | . ( ' |
| WITHESS:  | 40   |       |
| M. Turvey   |  |       |
| FILM: KODAL 200   |  |       |
| CAMERA: 35 Aur  | The state of the s |       |
| LOCATION:   |  |       |
| Ace Galvanizina   |  |       |
| Seottle WA.   |  |       |
| DESCRIPTION:<br>Same as photo#18  |  |       |
| Same as photo#18  |  |       |
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| PHOTÓ NO.: 20   |  |       |
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| DATE: 11/17/92<br>TIME: 12:57   |  |       |
| DATE: 11/17/92<br>TIME: 12:57<br>TAKEN BY:  |  |       |
| DATE: 11/17/92<br>TIME: 12:57<br>TAKEN BY:<br>1. POLANDS-WIEN   |  |       |
| DATE: 11/192<br>TIME: 12:57<br>TAKEN BY:<br>1. Polangs-Wien<br>WITNESS:   |  |       |
| TIME: 12:57 TAKEN BY:  J. Polangs-Wien WITNESS:  M. Turvey  |  |       |
| DATE: 11/17/92  TIME: 12:57  TAKEN BY:  J. POLANDS-WIEN  WITNESS:  M. Turvey  FILM: KODAK 200   |  |       |
| DATE: 11/17/92  TIME: 12:57  TAKEN BY:  J. POLANDS-WIEN  WITNESS:  M. Turvey  FILM: KODAK 200  CAMERA: 35 MM  |  |       |
| DATE: 11/17/92  TIME: 12:57  TAKEN BY:  I POLANGE-WIEN  WITNESS:  MI TURVEY  FILM: KODAK 200  CAMERA: 35 MM  LOCATION:  |  |       |
| DATE: 11/17/92  TIME: 12:57  TAKEN BY:  J. POLANGE-W.EN  WITNESS:  M. Turvey  FILM: KODAK 200  CAMERA: 35 MM  LOCATION:  All (galvinging)   |  |       |
| DATE: 11/17/92  TIME: 12:57  TAKEN BY:  I POLANGE-WIEN  WITNESS:  MI TURVEY  FILM: KODAK 200  CAMERA: 35 MM  LOCATION:  |  |       |
| DATE: 11/192<br>TIME: 12:57<br>TAKEN BY:  J. POLANGE-W.EN  WITNESS:  M. Turvey  FILM: KODAK 200  CAMERA: 35 MM  LOCATION:  All (galvinging)  Seatfle, Wa. 0  DESCRIPTION:           |  |       |
| DATE: 11/192<br>TIME: 12:57<br>TAKEN BY:  J. POLANGE-W.EN  WITNESS:  M. Turvey  FILM: KODAK 200  CAMERA: 35 MM  LOCATION:  All (galving)  Slattle, Wa. 0  DESCRIPTION:  Back and of |  |       |
| TIME: 12:57  TAKEN BY:  J. POLANGE-WIEN  WITNESS:  M. Turvey  FILM: KODAK 200  CAMERA: 35 MM  LOCATION:  Ale (galvining)  Sentle, Wa.  DESCRIPTION:  Back and of  main building     |  |       |
| DATE: 11/192<br>TIME: 12:57<br>TAKEN BY:  J. POLANGE-W.EN  WITNESS:  M. Turvey  FILM: KODAK 200  CAMERA: 35 MM  LOCATION:  All (galving)  Slattle, Wa. 0  DESCRIPTION:  Back and of |  |       |

| DATE: 11/17/92-<br>TIME: 12:58  |          |
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| J. Polmus-Wien<br>WITNESS:  | 200      |
| WITNESS:  |          |
| M. Turvey   | AT IT    |
| FILM: KODEL 200   |          |
| CAMEM: 25 Mm  |          |
| ICCATION:   |          |
| Ace Galvenizing   |          |
| Southle, wa.  |          |
| DESCRIPTION:  |          |
| Buchejard Storage   |          |
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| DATE: 11/17/92  TIME: 12:58  TAKEN BY:  |          |
| DATE: 11/17/92<br>TIME: 12:58   |          |
| TIME: 12:58  TAKEN BY:  J. Polaryes-Wien WITNESS:   |          |
| DATE: 11/17/92  TIME: 12:58  TAKEN BY:  J. Polaryes-Wien  WITNESS:  M. Turvey   |          |
| DATE: 11/17/92  TIME: 12:58  TAKEN BY:  J. Polaryes-Wien  WITNESS:  M. Turvey  FILM: Kodak 200  |          |
| DATE: 11/17/92  TIME: 12:58  TAKEN BY:  J. Polaryes-Wien  WITNESS:  M. Turvey   |          |
| DATE: 11/17/92  TIME: 12:58  TAKEN BY:  J. Polaryes-Wien  WITNESS:  M. Turvey  FILM: Kodak 200  CAMERA: 35 Num  LOCATION:  Ale (galvinizing)                          |          |
| DATE: 11/17/92  TIME: 12:58  TAKEN BY:  J. Polaryes-Wien  WITNESS:  M. Turvey  FILM: Kodak 200  CAMERA: 35 Num  LOCATION:  Ale (galvinizing)                          |          |
| DATE: 11/192  TIME: 12:58  TAKEN BY:  J. Polarys-wien  WITNESS:  M. Turver  FILM: Kodak 200  CAMERA: 25 Num  LOCATION:  Ace Galvinizing  Slattle Wa.  DESCRIPTION:    |          |
| DATE: 11/17/92  TIME: 12:58  TAXEN BY:  J. Polarys-Wien  WITNESS:  M. Turven  FILM: Kodak 200  CAMERA: 35 Num  LOCATION:  Ale Galvinizing  Seattle Wa.                |          |
| DATE: 11/192  TIME: 12:58  TAKEN BY:  J. Polaryes - Wien  WITNESS:  M. Turven  FILM: Koday 200  CAMERA: 35 Mm  LOCATION:  Ace (salvinizing  Seattle Wa.  DESCRIPTION: |          |

| PHOTO NG. 23      |  |   |
|-------------------|--|---|
| DATE: . 11/17/92  |  | , x , y , y , y , y , y , y , y , y , y |
| TIME: 12:58       | Las Saladi   |   |
| TAKEN BY:         |  |   |
| J. Polangi-Wien   |  |   |
| WITHESS!          |  |   |
| M. Turvey         |  |   |
| FILM: Kordani 200 |  |   |
| CAVERA: 35 mm     | 7 Ma -   |   |
| LOCATION:         | 11111  |   |
| All Galvanizing   | Ches.  |   |
| Seattle, W.       |  |   |
| DESCRIPTION:      |  |   |
| Buckeyed Storage  |  |   |
| of parts.         |  |   |
| 00                |  |   |
|                   | The second secon |   |
|                   |  |   |

PHOTÓ NO .: 24

DATE: 11/17/92

TIME: 12:02

TAKEN BY:

J. Polous-wien

WITNESS:

MiToroly

FILM: 400Ale 2000

CHERA: 35 mm

LOCATION:

Scattle, WA ()

DESCRIPTION:

Inside warehouse -

drum Storage.







## DEPARTMENT OF ECOLOGY INSPECTION REPORT

TO:Dan Cargill, files
DATE OF VISIT:10-28-87
NEW INDUSTRY:No

INSPECTOR: Lee Dorigan PERMIT NO: None PERMIT EXPIRES:

## TYPE OF INSPECTION

| PERMIT | APPLICATION | 1  | COMPLAINT   | ***        |
|--------|-------------|--|-------------|------------|
| PERMIT | RENEWAL     |  | ENFORCEMENT | compliance |
| PERMIT | COMPLIANCE  | Free Crafts trains many sandy panel 1999 | DROP IN     |            |

FACILITY: Ace Galvanizing 782 8300 ADDRESS: 621 N. W. 41st Street CITY: Seattle, Wash. ZIP: 98107

COUNTY: King

PERSON CONTACTED: Mike Buckland, General Manager & Pete Pedone, Consultant TYPE OF FACILITY: Galvanizing, small items

RECEIVING WATER: storm sewers, 2 blocks to the ship canal TYPE TREATMENT SYSTEM: containment, alkaline separator in storm drain #WAD 099286881

OPERATION: satisfactory

DESCRIPTION: I met Mike Buckland and Pete Pedone at the office of Ace Galvanizing, by previous agreement, to make am inspection to verify the compliance work agreed upon by Ace and supervised by Mr. Fedone. This was the first time that I had inspected this site. The site consists of a paved lot about 1/3 the size of the main site. On the lot is an office building on the front middle of the lot. The office building is two stories with the second stories rented out. A breezeway roof connects the office building with the galvanizing building. The galvanizing building is on the north side of the lot and extends from the front to the back of the lot. The lot slopes down in a east, southeast direction. This means that water drains across the lot from front to back and towards the canal.

The office is in the center of the galvanizing building. The production line moves from east to west, or right to left as view from the front. The sequence of the tanks is: caustic, caustic rinse, acid, acid rinse, flux tank, galvanizing, and quench tanks. All drains inside of this building are concreted. There are berms at each doorway. The bottom story of the two story building contains a large storage room. Off the storage room is a small machine shop and a compressor room. All drains in this building are sealed with concrete. The building was seriously damaged by a spill from a Whiting truck several years ago.

The storm water drain is in the southeast corner of the lot and has a system like an oil-water separator but the outer pipe has holes in it and is files with caustic ash. I too photographs of the site.

FOLLOW UP: 1.

Les Dong 11/4